

AND DECK PLANS

SCALE 1 : 100

CAPTAIN DECK

PL 7 STIFF 75x75x62
SPACED 800 APART

BOAT DECK

PL 8 STIFF 75x75x92
SPACED 800 APART
WELDED AT TOP & BOTTOM

STIFF PL 6 STIFF 75x92 AT EVERY FRAME

PL 7 STIFF 75x75x62 AT EVERY FRAME WELDED AT HEEL



MACHINERY
(19'200 x 14'000)

NO 3 CARGO HATCH
(8'000 x 6'000)
WOOD HATCH COVER 65

NO 2 CARGO HATCH
(12'000 x 6'000)

~~Profile & decks~~

Longitudinal sections
& decks

* SHOWA MARU.

RECORDS DEPT.
LONDON

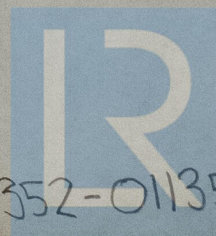
5

URAG A DOCK CO.

YARD NO 650

PROFILE +

DKS.



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011352-011359-0073

Lloyd's Register
Foundation

SCALE 1 : 100

NO 650
昌和丸

MIDSHIP
SECTION

完成圖

中央切断

SCALE 1/25

URAGA SHIPBUILDING YARD
URAGA DOCK CO. LTD.
DESIGNING DEPT.
船政設計部

完成 - 18
面号 M-9932

011352-011359-0072

★ Showa maru
as built

Yka F.E. Rpt. No. 1162A.

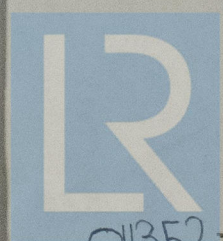
Certified copy of approved plan.
except as indicated.

LLOYD'S REGISTER
YOKOHAMA
OF SHIPPING
4/12/53.

Midship section

RECORDS DEPT.
LONDON

3



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Lloyd's Register
Foundation

011352-011359-0072

南面来厂
当班设计
完成日期

MIDSHIP SECTION

SCALE 1/64

CLASS * 100 A 1 & * LMC OF LLOYD'S
& NS* & MNS* OF N. K.

EQUIPMENT MINERAL

L (A+B)	128.36 (17.24 + 11.12)	= 38.1775
BRIDGE	41.12 + 2.90 + 0.71	= 74.7375
SHIPWRIGHT	10.48 + 2.30 + 0.71	= 13.49
POOP	1.32 + 0.36 + 0.71	= 2.39
DECKHOUSES	(25.12 + 12.40 + 12.40) + 2.39 + 0.71	= 76.27
TOTAL	380.17	380.17

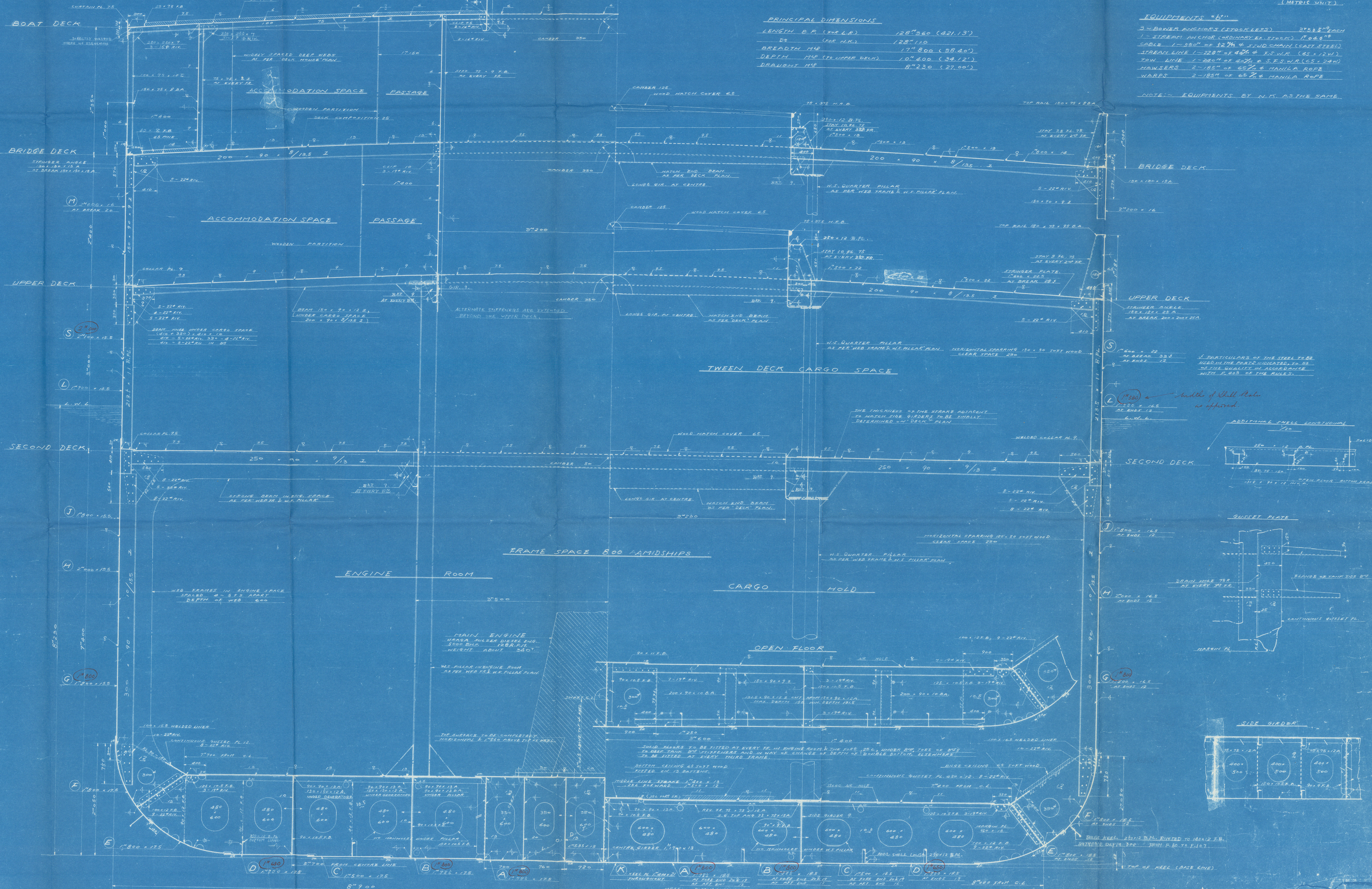
(METRIC UNIT)

EQUIPMENTS "6"

3 - BOWER ANCHORS (STOCKLESS) 3500 LBS EACH
1 - STEAM ANCHOR (ORDINARY EX. STEAM) 1000 LBS
CABLE 1 - 50' OF 12 1/4" & 12' OF 12 1/4" (CAST STEEL)
SPRINKLING 1 - 80' OF 1 1/2" & 1 1/2" (CAST STEEL)
TOW LINE 1 - 50' OF 60% & 5' OF 1 1/2" (CAST STEEL)
HAWKERS 2 - 185' OF 60% & 5' OF 1 1/2" (CAST STEEL)
WARDS 2 - 185' OF 60% & 5' OF 1 1/2" (CAST STEEL)

NOTE: EQUIPMENTS BY N. K. AS THE SAME.

PRINCIPAL DIMENSIONS
LENGTH B.B. (EXCL. A) 128' 360 (421.13')
B.B. (FOR H.D.) 128' 110
BREADTH M.B. 17' 800 (53.84')
DEPTH M.B. (1/2 UPPER DECK) 10' 600 (32.31')
DRAUGHT M.B. 8' 230 (25.00')



№ 650
昌和丸

MIDSHIP
SECTION

中央切断

SCALE 1/64

完成日期

完成日期

完成日期

完成日期

完成日期

完成日期

No 650
昌和丸

STERN FRAME

完成圖

船尾骨材

改正				
尺度	$\frac{1}{25}, \frac{1}{15}, \frac{1}{10}, \frac{1}{5}, \frac{1}{2}$			
工事区分	H~312			
株式会社 浦賀造船所	設計部			
	部長			
	造船設計課	課長		
		係長		
	製図	S. Kanoe		
製図	April 3 rd 1953			
完成番号	完成~23			
類別番号	船殼~4			
図面番号	MH~1,0065			

260 X 1300

011352-011359-0075

★ Showa Kwan
"as built"

yka F.E. Rpt. No. 1162A.

Certified copy of approved plan.



Sternframe

RECORDS DEPT
LONDON

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011352-011359-0075

図面未歴
当社設計
完成図
船尾骨材

STERN FRAME

SCALE: GENERAL 1/10, DETAILS 1/20, 1/40

MATERIAL LIST

MARK	NOMENCLATURE	MATERIAL	QTY	ESTIMATED WEIGHT	MARKING	FINISHING
(1)	STERN FRAME	CAST STEEL (S50C)	1	11,100 kg		粗、中
(2)	TOP PINTLE & NUT	FORGED STEEL	1	1,100 kg		粗、中
(3)	SLEEVE FOR TOP PINTLE	GUNMETAL	1	1,100 kg		粗、中
(4)	BUSH FOR TOP PINTLE	LIGNUMVITAE	1	1,100 kg		粗、中
(5)	HARDENED CARRYING DISC	HARD STEEL	1	1,100 kg		粗、中
(6)	WASHER	STAINLESS STEEL	1	1,100 kg		粗、中
(7)	RUDDER STOPPER (TAI-BOLT)	FORGED STEEL (S50C)	1	1,100 kg		粗、中
(8)	BUSH FOR BOTTOM PINTLE	LIGNUMVITAE	1	1,100 kg		粗、中
(9)	SLEEVE FOR BOTTOM PINTLE	GUNMETAL	1	1,100 kg		粗、中
(10)	BUSH FOR BOTTOM PINTLE	LIGNUMVITAE	1	1,100 kg		粗、中
(11)	WASHER	STAINLESS STEEL	1	1,100 kg		粗、中
(12)	ZINC PROTECTOR	ZINC PLATE	16	1,100 kg		粗、中
(13)	SPLIT PIN	FORGED STEEL	2	1,100 kg		粗、中

NOTE: MATERIALS OF STERN FRAME & PINTLES TO BE TESTED TO LLOYD'S & N.K.K.

NOTES:

- DIAMETER OF RUDDER HEAD IS SUBMITTED FOR APPROVAL ON THIS DRAWING.
- WEIGHT OF RUDDER & RUDDER HEAD TO BE SUBMITTED AT UPPER BEARING.
- PINTLE'S HARKING TO BE DISTINGUISHLY DETERMINED BY MARKING IN MOLD LOFT.
- CARRYING CONTENT NOT TO EXCEED 0.232.

PARTICULARS OF RUDDER

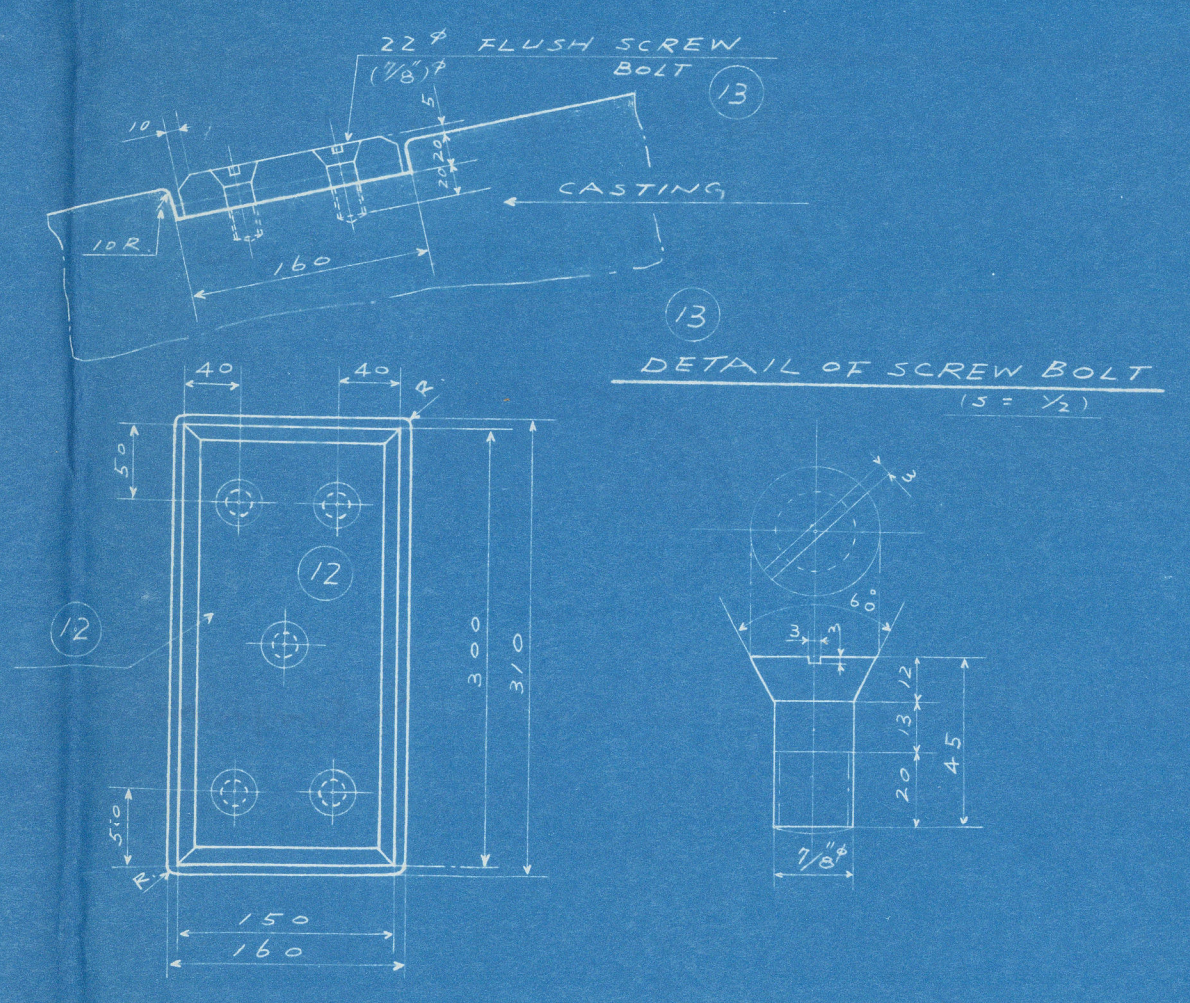
1) TYPE	BALANCED	REACTION	TYPE
2) RUDDER AREA:	AREA FORWARD OF PINTLES' CENTER LINE (A) = 1,142 (44.20)		
	AREA AHEAD OF PINTLES' CENTER LINE (A) = 1,142 (44.20)		
	TOTAL AREA A + A = 2,284 (88.40)		
3) RUDDER HEAD:	HORIZONTAL DISTANCE FROM CENTER OF GRAVITY OF "A" TO PINTLES' CENTER LINE (D) = 1,142 (44.20)		
	NUMERICAL N = A + D = 1,142 + 2.28 = 3,424		
	HORIZONTAL DISTANCE FROM CENTER OF GRAVITY OF "A" TO PINTLES' CENTER LINE (D) = 1,142 (44.20)		
	NUMERICAL N = A + D = 1,142 + 2.28 = 3,424		
SEA SPEED	14 KNOTS		
DIAMETER OF RUDDER HEAD	260 mm		
4) PINTLES:	AREA SUPPORTED BY UPPER PINTLE = 1,142 (44.20)		
	AREA "A" BOTTOM = 1,142 (44.20)		
	DIAMETER OF UPPER & BOTTOM PINTLES = 260 mm		

DEGREE OF FINISHING

1) STRAIGHT SURFACE	1/10
2) ROUGH SURFACE	1/20
3) MEDIUM SURFACE	1/40
4) HIGH FINISH	1/80

- 船尾骨材の材料は、船尾骨材の材料に決定した。
- 船尾骨材の重量は、船尾骨材の重量に決定した。
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ATTACHMENT OF ZINC PROTECTOR



NO 650
昌和丸

STERN FRAME

船尾骨材

大 尺	$\frac{1}{10}$	$\frac{1}{20}$	$\frac{1}{40}$	$\frac{1}{80}$
中 尺	$\frac{1}{20}$	$\frac{1}{40}$	$\frac{1}{80}$	$\frac{1}{160}$
小 尺	$\frac{1}{40}$	$\frac{1}{80}$	$\frac{1}{160}$	$\frac{1}{320}$
細 尺	$\frac{1}{80}$	$\frac{1}{160}$	$\frac{1}{320}$	$\frac{1}{640}$
超 細	$\frac{1}{160}$	$\frac{1}{320}$	$\frac{1}{640}$	$\frac{1}{1280}$
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超 超	$\frac{1}{2560}$	$\frac{1}{5120}$	$\frac{1}{10240}$	$\frac{1}{20480}$
超 超	$\frac{1}{5120}$	$\frac{1}{10240}$	$\frac{1}{20480}$	$\frac{1}{40960}$
超 超	$\frac{1}{10240}$	$\frac{1}{20480}$	$\frac{1}{40960}$	$\frac{1}{81920}$
超 超	$\frac{1}{20480}$	$\frac{1}{40960}$	$\frac{1}{81920}$	$\frac{1}{163840}$
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超 超	$\frac{1}{81920}$	$\frac{1}{163840}$	$\frac{1}{327680}$	$\frac{1}{655360}$
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超 超	$\frac{1}{193428131138340667952988160}$	$\frac{1}{386856262276681335905976320}$	$\frac{1}{773712524553362671811952640}$	$\frac{1}{1547425049106725343623905280}$
超 超	$\frac{1}{386856262276681335905976320}$	$\frac{1}{773712524553362671811952640}$	$\frac{1}{1547425049106725343623905280}$	$\frac{1}{3094850098213450687247810560}$
超 超	$\frac{1}{773712524553362671811952640}$	$\frac{1}{1547425049106725343623905280}$	$\frac{1}{3094850098213450687247810560}$	$\frac{1}{6189700196426901374495621120}$
超 超	$\frac{1}{1547425049106725343623905280}$	$\frac{1}{3094850098213450687247810560}$	$\frac{1}{6189700196426901374495621120}$	$\frac{1}{12379400392853802748991242240}$
超 超	$\frac{1}{3094850098213450687247810560}$	$\frac{1}{6189700196426901374495621120}$	$\frac{1}{12379400392853802748991242240}$	$\frac{1}{24758800785707605497982484480}$
超 超	$\frac{1}{6189700196426901374495621120}$	$\frac{1}{12379400392853802748991242240}$	$\frac{1}{24758800785707605497982484480}$	$\frac{1}{49517601571415210995964968960}$
超 超	$\frac{1}{12379400392853802748991242240}$	$\frac{1}{24758800785707605497982484480}$	$\frac{1}{49517601571415210995964968960}$	$\frac{1}{99035203142830421991929937920}$
超 超	$\frac{1}{24758800785707605497982484480}$	$\frac{1}{49517601571415210995964968960}$	$\frac{1}{99035203142830421991929937920}$	$\frac{1}{198070406285660843983859875840}$
超 超	$\frac{1}{49517601571415210995964968960}$	$\frac{1}{99035203142830421991929937920}$	$\frac{1}{198070406285660843983859875840}$	$\frac{1}{396140812571321687967719751680}$
超 超	$\frac{1}{99035203142830421991929937920}$	$\frac{1}{198070406285660843983859875840}$	$\frac{1}{396140812571321687967719751680}$	$\frac{1}{792281625142643375935439503360}$
超 超	$\frac{1}{198070406285660843983859875840}$	$\frac{1}{396140812571321687967719751680}$	$\frac{1}{792281625142643375935439503360}$	$\frac{1}{1584563250285286751870879006720}$
超 超	$\frac{1}{396140812571321687967719751680}$	$\frac{1}{792281625142643375935439503360}$	$\frac{1}{1584563250285286751870879006720}$	$\frac{1}{3169126500570573503741758013440}$ </

NO 650
昌和丸

RUDDER
CONSTRUCTION



舵構造

改正				
尺度	1/8	1/5	1/10	1/2
工事区分	H-421			
株式会社 浦賀造船所	設計部			
	部長	課長		
		係長	製図	
			SK	
製図	F4 54 1953			
完成番号	完成-22			
類別番号	船殻-101			
図面番号	MH-9899			

★ Showa Maru
"as built"

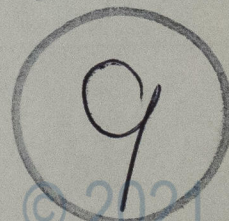
Yka F.E. Rpt. No. 1162A.

Certified copy of approved plan.



Rudder constr.

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LONDON



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Lloyd's Register
Foundation

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